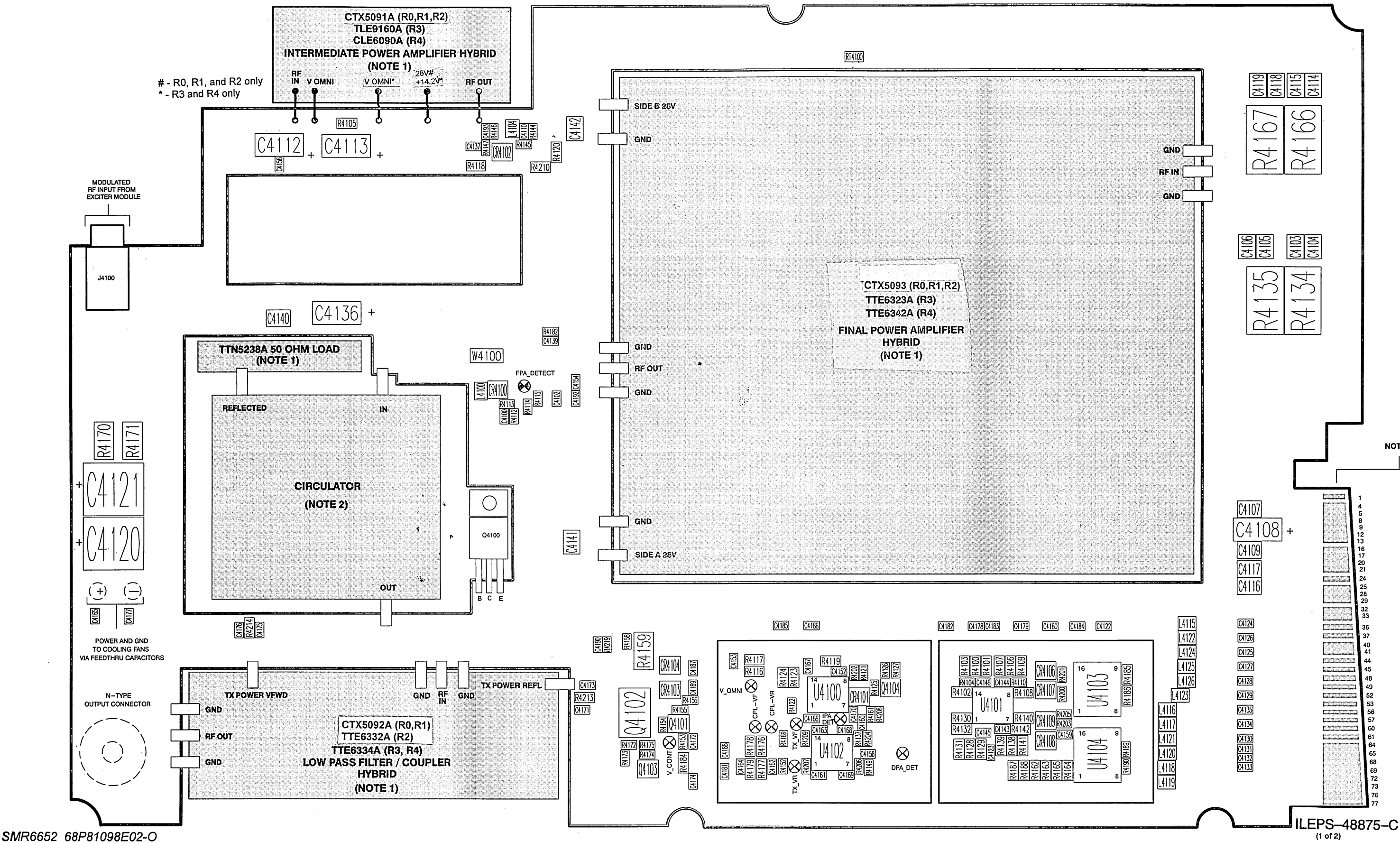
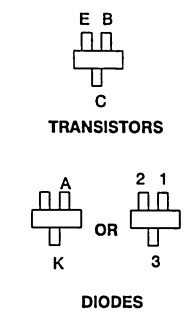


UHF 100/110W POWER AMPLIFIER MODULES
MODELS CLX4002A, CLE6164A/65A, TTE6373A/74A



BASING DETAILS



- NOTES:
- 1) ALL HYBRIDS ARE CONSIDERED NON-SERVICEABLE. IF HYBRID IS MALFUNCTIONING, REPLACE ENTIRE HYBRID.
 - 2) The Motorola part number for the circulator is 5884911T33 (R0,R1,R2) and 5884911T18 (R3,R4).
 - 3) THE CIRCUIT BOARD EDGE CONNECTOR HAS PRINTED CIRCUIT PLATED CONTACTS ON BOTH SIDES OF THE BOARD EDGE. SEE THE FOLLOWING TABLE FOR EDGE CONNECTOR PIN NUMBERING/SIGNAL NAME CROSS-REFERENCE.

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
1	GND	40	GND
2	GND	41	GND
3	GND	42	GND
4	+28V	43	GND
5	+28V	44	NOT USED
6	+28V	45	NOT USED
7	+28V	46	NOT USED
8	+28V	47	NOT USED
9	+28V	48	FAN ON
10	+28V	49	GND
11	+28V	50	GND
12	+28V	51	GND
13	+28V	52	X1 MUX (NOT USED)
14	+28V	53	Y1 MUX (NOT USED)
15	+28V	54	X2 MUX
16	+14.2V	55	Y2 MUX
17	+14.2V	56	X3 MUX
18	+14.2V	57	Y3 MUX
19	+14.2V	58	A MUX CTRL
20	+14.2V	59	B MUX CTRL
21	+14.2V	60	SPARE 1
22	+14.2V	61	SPARE 2
23	+14.2V	62	SPARE 3
24	+5V	63	GND
25	GND	64	GND
26	GND	65	GND
27	GND	66	GND
28	GND	67	GND
29	GND	68	GND
30	GND	69	GND
31	GND	70	GND
32	VCTRL	71	GND
33	VCTRL	72	GND
34	VCTRL	73	GND
35	VCTRL	74	GND
36	TX VF 1	75	GND
37	PA TEMP 1 (NOT USED)	76	GND
38	DRIVER FWD (NOT USED)	77	GND
39	TX VR 1 (NOT USED)	78	GND

See the A-size pages for the RF/DC Distribution board's parts list. The parts list is for the CLX4002A, CLE6164A, CLE6165A, TTE6373A, and TTE6374A boards.

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
	1585034U03	COVER, Shield (used with E4100)
	1585034U03	COVER, Shield (used with E4101)
	5482006W01	Label, PCB barcode
	5482006W02	ribbon, thermal transfer
	5484960T01	Label, barcode: 6.3 x 12.7mm, white
	8482790X03	CIRCUIT BOARD

note: For optimum performance, diodes, transistors, and integrated circuits must be ordered by Motorola part numbers.

Part Number	Description	Quantity
0185181U01	ASSEM PA COOLING FANS	1
0211996A02	NUT HEX 3/8X24X1/2X3/32 SST	1
0310907A28	SCRMCH M3.5X0.6X10 INTSTARPAN	1
	CLE6158A:	7
	TTN5069A:	3
0310943J09	SCRTPG TT3X0.5X6 INTSTARPAN	20
0310943J10	SCRTPG TT3X0.5X8 INTSTARPAN	8
0312016A32	SCRTPG TT3.5X.6X18 STRPNSTLZNC	8
0400007691	WSHRLCK 3/8 INT STL CAD	2
0984169Y01	CONNECTOR,RECEPT "N" CAST HSG	1
1010041B42	SLDR 63/37 .031 DIA 2.5%	1
1110022A55	COMPOUND THERMAL JOINT	1
1585002U02	COVER HB PA	1
2182805H05	CAP CER FEEDTHRU 1000 GMV X5U	2
2682318W06	HEATSINK PA 100W (W/FINS)	1
3282796H05	GSKT	35.8
5482624Y01	LABEL THERMAL XFER WHT POLYSTR	1

CTX5092A/TTE6332A/TTE6334A Low Pass Filter/Coupler Hybrid PL-13112-O

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION

This hybrid contains non-serviceable parts. If the hybrid is malfunctioning, replace the entire hybrid module.

CTX5093A/TTE6323A/TTE6324A 100/110W Final PA Hybrid PL-13114-A

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION

This hybrid contains non-serviceable parts. If the hybrid is malfunctioning, replace the entire hybrid module.

CTX5091A/TLE9160A/CLE6090A Intermediate PA Hybrid PL-13113-B

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION

This hybrid contains non-serviceable parts. If the hybrid is malfunctioning, replace the entire hybrid module.

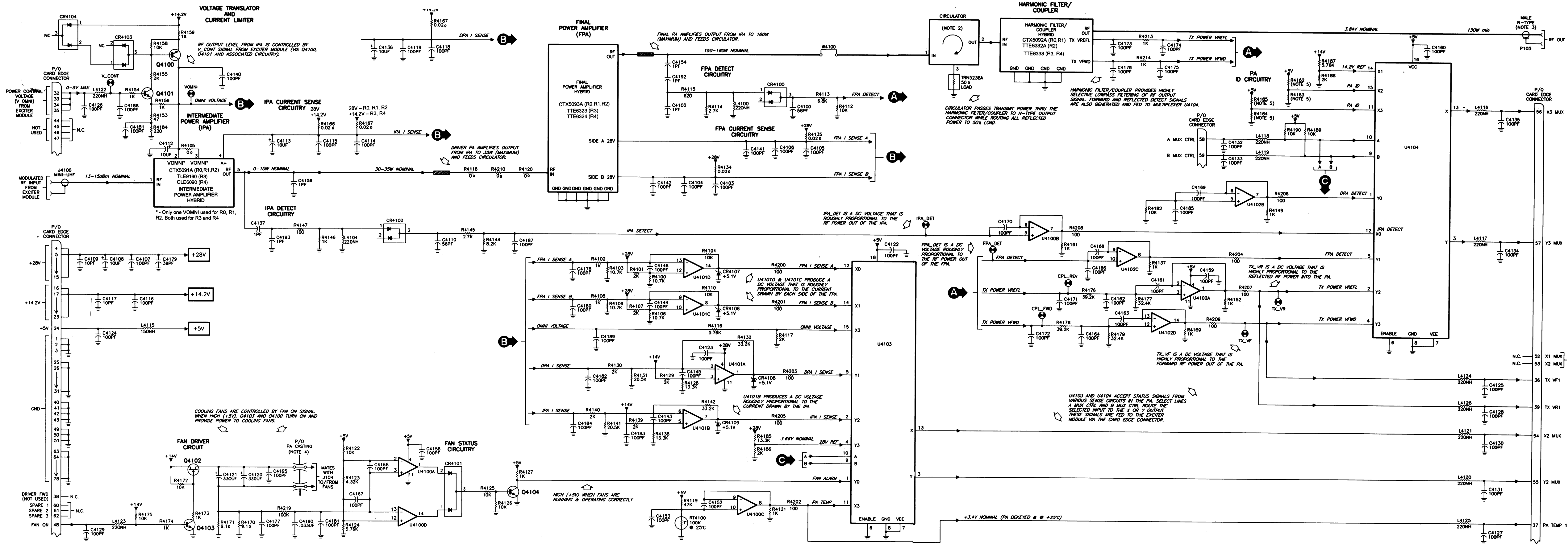
TTN5238A Circulator 50Ω Load PL-13103-O

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION

W4900 4284729T02 cable assembly: STRAP PA
non-referenced items:
4385035U02 FLANGE, circulator load (VHF)

This hybrid contains non-serviceable parts. If the hybrid is malfunctioning, replace the entire hybrid module.

UHF 100/110W POWER AMPLIFIER MODULES
MODELS CLX4002A, CLE6164A/65A, TTE6373A/74A



NOTES:

- Unless otherwise indicated, all resistor values are in Ohms, capacitor values are in picofarads, and inductor values are in millihenries. N.C. - No Connection
- The Motorola part number for the circulator is shown in the table below.
- The N-type output connector (0900816159, P/O TTN5069A hardware) is soldered onto the reverse side of the RF/DC distribution board.
- Connections to the cooling fans are made via feedthru capacitors (1000 pF, P/O TRN5069A hardware).
- Resistors R4162 thru R4165 comprise a "resistor ROM" that identifies the band, range, and output power of the particular PA module. The resistors are placed as shown in the table below.

Model	Part Number
CTX1146 (R0)	5884911T33
CLE1319 (R1)	5884911T33
CLE1308 (R2)	5884911T33
TTE2063 (R3)	5884911T18
TTE2064 (R4)	5884911T18

Model	R4162	R4163	R4164	R4165
CLX4002 (R0)	N/A	0	390	1K
CLE6164 (R1)	15K	1.5K	560	10K
CLE6165 (R2)	1K	390	100	1K
TTE6373 (R3)	2.2K	2.7K	1.5K	15K
TTE6374 (R4)	18K	15K	1.5K	15K

Integrated Circuit Power and Ground Connections

Ref. Desig.	Type	Description	Supply Pin	Ground Pin
U4100	MC33074	High performance operational amplifier	4	11
U4101	MC33074	High performance operational amplifier	4	11
U4102	MC33074	High performance operational amplifier	4	11
U4103	74HC4052	Analog multiplexor/demultiplexor	16	8
U4104	74HC4052	Analog multiplexor/demultiplexor	16	8

Legend:
Main RF signal path

Parts List, RF/DC Distribution Board CLX4002A, CLE6164A, CLE6155A, TTE6373A, TTE6374A

Reference	Part Number	Description
Capacitors:		
C4100	2113740A49	CAP CHIP REEL CL1 +/-30 56
C4102	2113740G03	CAP CERAMIC CHIP 1.0 PF +/- .1PF
C4103-4107	2113901C58	CAP CHIP HI Q 100 PF +/- 5%
C4108	2311049A45	CAP TANT CHIP 10 10 35
C4109	2113901C29	CAP CHIP HI Q 10 PF +/-0.50PF
C4110	2113740A49	CAP CHIP REEL CL1 +/-30 56
C4112,4113	2311049A45	CAP TANT CHIP 10 10 35
C4114-4116	2113901C58	CAP CHIP HI Q 100 PF +/- 5%
C4117	2113901C29	CAP CHIP HI Q 10 PF +/-0.50PF
C4118,4119	2113901C58	CAP CHIP HI Q 100 PF +/- 5%
C4120,4121	2380090M27	CAP ALU 330 20 16V
C4122-4135	2113740A55	CAP CHIP REEL CL1 +/-30 100
C4136	2311049A45	CAP TANT CHIP 10 10 35
C4137	2113740G03	CAP CERAMIC CHIP 1.0 PF +/- .1PF
C4140-4142	2113901C58	CAP CHIP HI Q 100 PF +/- 5%
C4143-4153	2113740A55	CAP CHIP REEL CL1 +/-30 100
C4154,4156	2113740G03	CAP CERAMIC CHIP 1.0 PF +/- .1PF
C4158-4189	2113740A55	CAP CHIP REEL CL1 +/-30 100
C4190	2113741A57	CAP CHIP CL2 X7R REEL 33000
C4192,4193	2113740G03	CAP CERAMIC CHIP 1.0 PF +/- .1PF
C4194	2113741B69	CAP CHIP CL2 X7R REEL 100000
Diodes:		
CR4100	4882290T04	DIODE SI HOT CARRIER HSMS 2812
CR4101	4813833C02	DIODE DUAL 70V '5B' COMM CATH
CR4102	4882290T04	DIODE SI HOT CARRIER HSMS 2812
CR4103	CLX4002A: Not Installed	N/A
	CLE6164A: Not Installed	N/A
	CLE6155A: Not Installed	N/A
	TTE6373A: 4813833C05	DIODE DUAL 70V 'A7X' BAV99LT1
	TTE6374A: 4813833C05	DIODE DUAL 70V 'A7X' BAV99LT1
CR4104	4813833C05	DIODE DUAL 70V 'A7X' BAV99LT1
CR4106-4109	4813830A14	DIODE 5.1V 5% 225MW MMBZ5231B_
Connectors:		
J4100	0984393T01	CONN MINI UHF RT ANGLE PCB MT
Inductors:		
L4100-4126	2462587X57	IND CHIP LO-PRO 220 NH 5%
Transistors:		
Q4100	CLX4002A: 4813822D07	TSTR PNP 90V 10A MJF2955
	CLE6164A: 4813822D07	TSTR PNP 90V 10A MJF2955
	CLE6155A: 4813822D07	TSTR PNP 90V 10A MJF2955
	TTE6373A: 4813822D08	TSTR PNP 100V 5A DARL MJF127
	TTE6374A: 4813822D08	TSTR PNP 100V 5A DARL MJF127

Reference	Part Number	Description
Q4101	4813824A10	TSTR NPN 40V .2A GEN PURP
Q4102	4813821A09	TSTR P-CH 60V 12A _2955_
Q4103,4104	4813824A10	TSTR NPN 40V .2A GEN PURP
Resistors:		
R4100	0611077F94	RES CHIP 10.7K 1 1/8W
R4101	0611077F24	RES CHIP 2000 1 1/8W
R4102,4103	0611077E94	RES CHIP 1000 1 1/8W
R4104	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4105	0611077A01	RES CHIP JUMPER
R4106,4107	0611077F94	RES CHIP 10.7K 1 1/8W
R4108	0611077E94	RES CHIP 1000 1 1/8W
R4109	0611077F94	RES CHIP 10.7K 1 1/8W
R4110,4112	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4113	0611079A94	RES FIXED CHIP 6800 5 1/10 A/P
R4114	0611079A84	RES FIXED CHIP 2700 5 1/10 A/P
R4115	0611079A69	RES FIXED CHIP 620 5 1/10W A/P
R4116	0611077F68	RES CHIP 5760 1 1/8W
R4117	0611077F24	RES CHIP 2000 1 1/8W
R4118	0611077A01	RES CHIP JUMPER
R4119	0611077B15	RES CHIP 47K 5 1/8W
R4120	0611077A01	RES CHIP JUMPER
R4121	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4122	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4123	0611077F56	RES CHIP 4320 1 1/8W
R4124	0611077F68	RES CHIP 5760 1 1/8W
R4125,4126	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4127	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4128	0611077G04	RES CHIP 13.3K 1 1/8W
R4129,4130	0611077F24	RES CHIP 2000 1 1/8W
R4131	0611077G22	RES CHIP 20.5K 1 1/8W
R4132	0611077G42	RES CHIP 33.2K 1 1/8W
R4134,4135	0682089V02	SMT RES .02 OHM 5% 2W
R4137	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4138	0611077G04	RES CHIP 13.3K 1 1/8W
R4139,4140	0611077F24	RES CHIP 2000 1 1/8W
R4141	0611077G22	RES CHIP 20.5K 1 1/8W
R4142	0611077G42	RES CHIP 33.2K 1 1/8W
R4144	CLX4002A: 0611079A95	RES FIXED CHIP 7500 5 1/10 A/P
	CLE6164A: 0611079A95	RES FIXED CHIP 7500 5 1/10 A/P
	CLE6155A: 0611079A95	RES FIXED CHIP 7500 5 1/10 A/P
	TTE6373A: 0611079A95	RES FIXED CHIP 7500 5 1/10 A/P
	TTE6374A: 0611079A96	RES FIXED CHIP 8200 5 1/10 A/P
R4145	CLX4002A: 0611079A90	RES FIXED CHIP 4700 5 1/10 A/P
	CLE6164A: 0611079A90	RES FIXED CHIP 4700 5 1/10 A/P
	CLE6155A: 0611079A90	RES FIXED CHIP 4700 5 1/10 A/P
	TTE6373A: 0611079A90	RES FIXED CHIP 4700 5 1/10 A/P
	TTE6374A: 0611079A84	RES FIXED CHIP 2700 5 1/10 A/P
R4146	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4147	0611079A50	RES FIXED CHIP 100 5 1/10W A/P
R4149,4152	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4153	0611079A42	RES FIXED CHIP 47 5 1/10W A/P
R4154	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P

Parts List, RF/DC Distribution Board CLX4002A, CLE6164A, CLE6155A, TTE6373A, TTE6374A

Reference	Part Number	Description
R4155	0611077F24	RES CHIP 2000 1 1/8W
R4156	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4158	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4159	0683962T05	RES CHIP 1.5 5-1
R4161	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4162	CLX4002A: Not Installed	N/A
	CLE6164A: 0611077B03	RES CHIP 15K 5 1/8W
	CLE6155A: 0611077B03	RES CHIP 15K 5 1/8W
	TTE6373A: 0611077A82	RES CHIP 2200 5 1/8
	TTE6374A: 0611077B05	RES CHIP 18K 5 1/8W
R4163	CLX4002A: 0611077A01	RES CHIP JUMPER
	CLE6164A: 0611077F12	RES CHIP 1500 1 1/8W
	CLE6155A: 0611077A64	RES CHIP 390 5 1/8W
	TTE6373A: 0611077A84	RES CHIP 2700 5 1/8
	TTE6374A: 0611077B03	RES CHIP 15K 5 1/8W
R4164	CLX4002A: 0611077A64	RES CHIP 390 5 1/8W
	CLE6164A: 0611077A68	RES CHIP 560 5 1/8W
	CLE6155A: 0611077D97	RES CHIP 100 1 1/8W
	TTE6373A: 0611077F12	RES CHIP 1500 1 1/8W
	TTE6374A: 0611077F12	RES CHIP 1500 1 1/8W
R4165	CLX4002A: 0611077A74	RES CHIP 1000 5 1/8
	CLE6164A: 0611077F91	RES CHIP 10.0K 1 1/8W
	CLE6155A: 0611077F91	RES CHIP 1000 1 1/8W
	TTE6373A: 0611077B03	RES CHIP 15K 5 1/8W
	TTE6374A: 0611077B03	RES CHIP 15K 5 1/8W
R4166,4167	0682089V02	SMT RES .02 OHM 5% 2W
R4169	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4170,4171	0683962T24	RES CHIP 9.1 5-1
R4172	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4173,4174	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4175	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4176	0611077G49	RES CHIP 39.2K 1 1/8W

Reference	Part Number	Description
R4177	0611077G41	RES CHIP 32.4K 1 1/8W
R4178	0611077G49	RES CHIP 39.2K 1 1/8W
R4179	0611077G41	RES CHIP 32.4K 1 1/8W
R4182	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4184	0611077A58	RES CHIP 220 5 1/8W
R4185	0611077G04	RES CHIP 13.3K 1 1/8W
R4186	0611077F24	RES CHIP 2000 1 1/8W
R4187	0611077F68	RES CHIP 5760 1 1/8W
R4188	0611077F24	RES CHIP 2000 1 1/8W
R4189	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4190	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4200-4209	0611079A50	RES FIXED CHIP 100 5 1/10W A/P
R4210	0611077A01	RES CHIP JUMPER
R4213,4214	0611077E94	RES CHIP 1000 1 1/8W
R4219	0611079E01	RES CHIP 100.0K 1/10W 1%
R4223	CLX4002A: 0611077A01	RES CHIP JUMPER
	CLE6164A: 0611077A01	RES CHIP JUMPER
	CLE6155A: 0611077A01	RES CHIP JUMPER
	TTE6373A: Not Installed	N/A
	TTE6374A: Not Installed	N/A
R4224	0611077F24	RES CHIP 2000 1 1/8W
RT4100	0680149M02	THERMISTOR CHIP 100K OHM
Semiconductors		
U4100-4102	5184334Y01	IC HIGH PERFORMANCE SING SPLY
U4103,4104	5113805A84	IC MUX/DEMUX DUAL 4-CH ANALOG
Miscellaneous		
W4100	4280500F01	T & R VER OF 4282981X01
W4201	CLX4002A: 4280500F01	T & R VER OF 4282981X01
	CLE6164A: 4280500F01	T & R VER OF 4282981X01
	CLE6155A: 4280500F01	T & R VER OF 4282981X01
	TTE6373A: Not Installed	N/A
	TTE6374A: Not Installed	N/A

NOTE 1: For optimum performance, diodes, transistors, and integrated circuits must be ordered by Motorola part number.

NOTE 2: Unless otherwise noted, parts are common to all boards.

POWER AMPLIFIER MODULE, DC DISTRIBUTION BOARD

MODEL CTX1146A

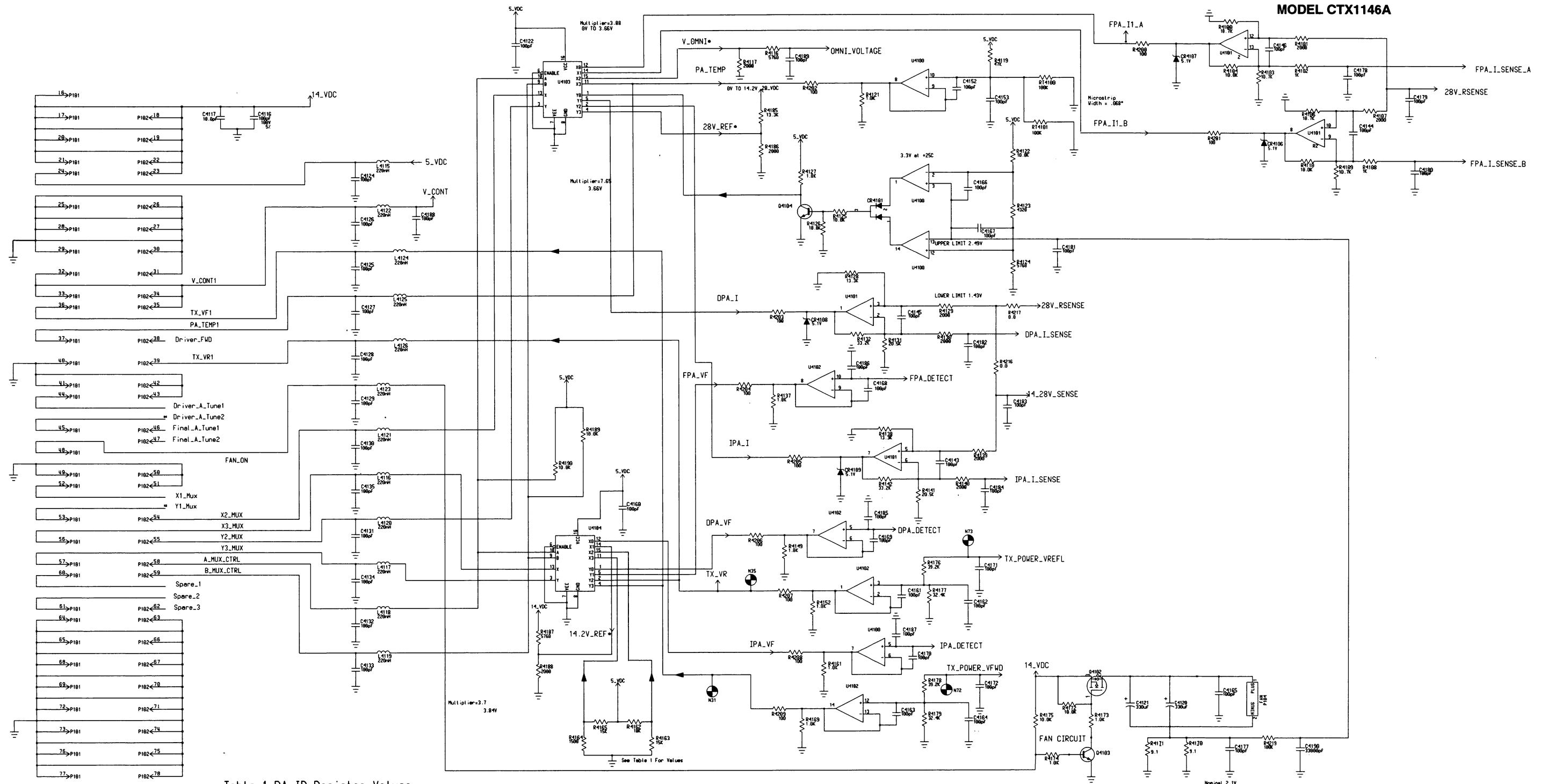
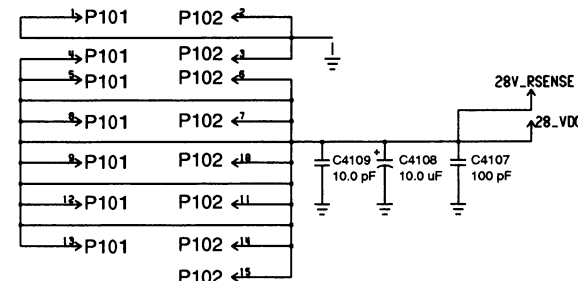
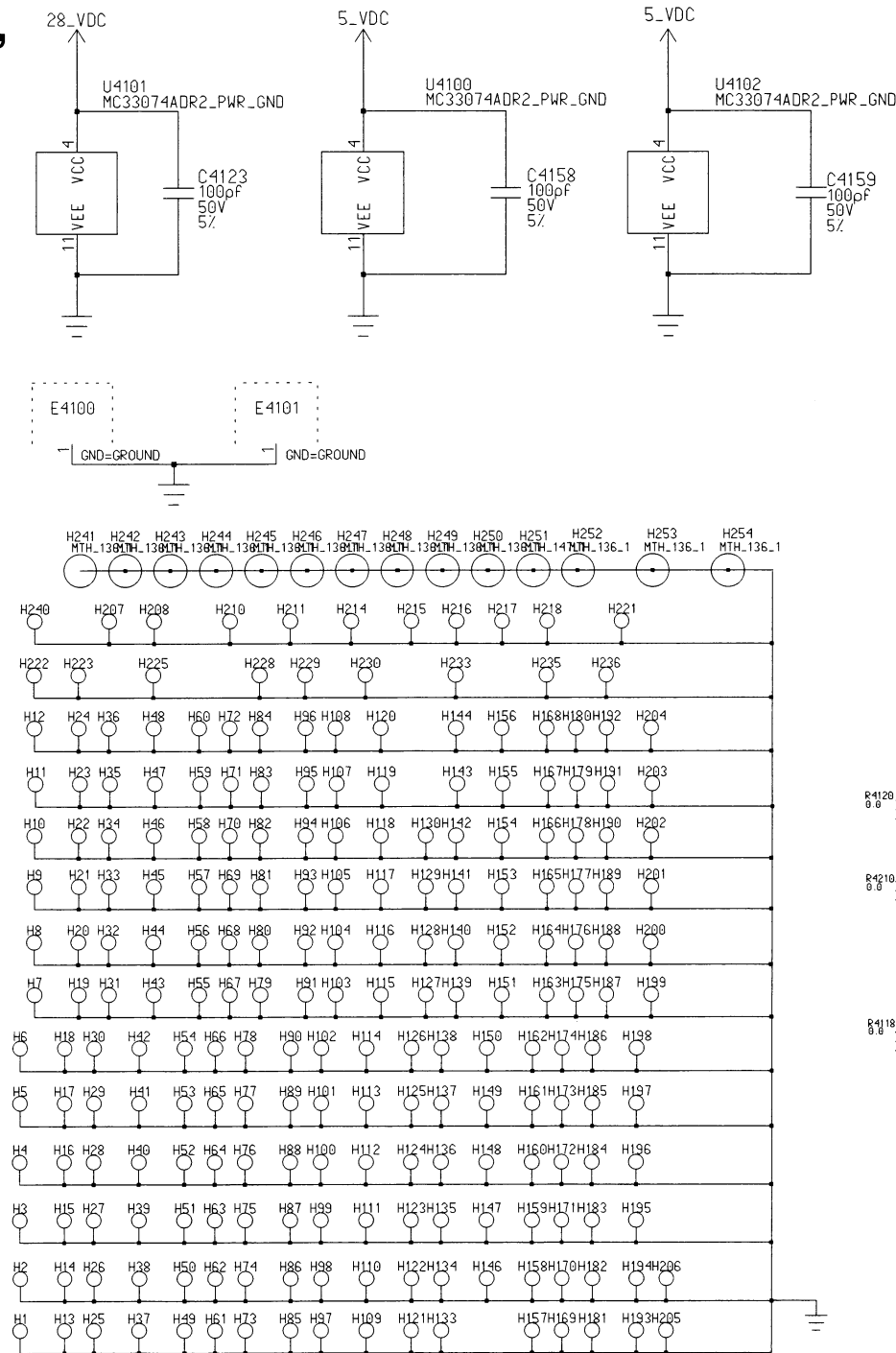


Table 1 PA_ID Resistor Values

KIT #	PA_ID_A	PA_ID_B	R4162	R4163	R4164	R4165
TLE6021A						
TLE6022A						
TLF7400A	0.5V	1.0V	OPEN	1.0K	1.5K	15K
TTE6371A	1.0V	0.5V	15K	1.5K	560	10K
TTE6372A	1.5V	0.5V	1.0K	390	100	1K
TTE6373A	3.0V	1.0V	2.2K	2.7K	1.5K	15K
TTE6374A	3.5V	1.0V	18K	15K	1.5K	15K
CLX4002A			OPEN	0.0	390	1K

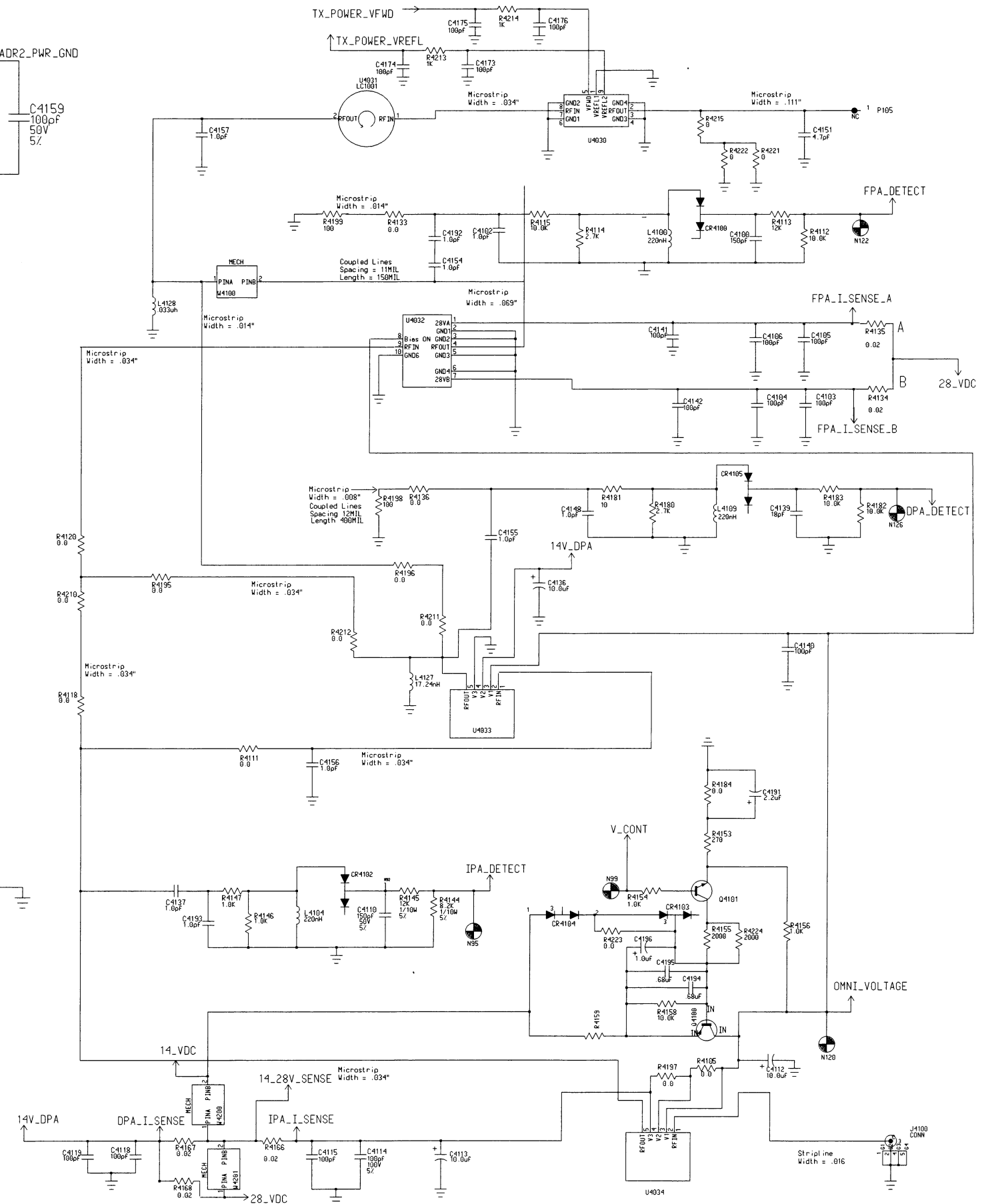


Note:
1. IGNORE indicates that the part is not installed.

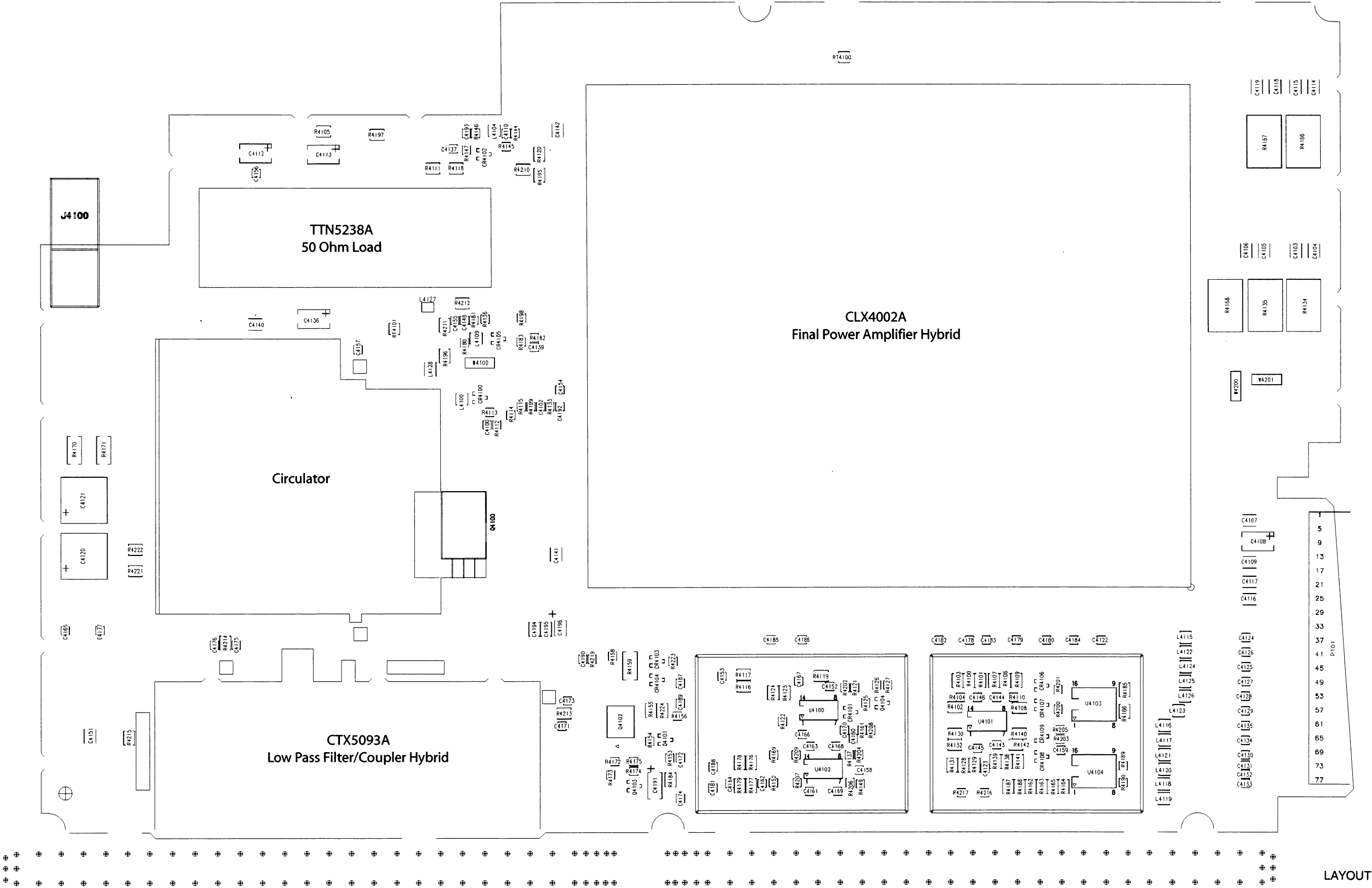
MODEL CTX1146A

Notes:

1. R4367 (10k) on Exciter pulls up the X3 mux line to 5.0 V when there is no PA present. This resistor affects each of the divider circuits above.
2. Ignore indicates that the part is not installed.



POWER AMPLIFIER MODULE , DC DISTRIBUTION BOARD
MODEL CTX1146A



LAYOUT

Parts List, Range 0 Power Amplifier, CTX1146A DC Distribution Board

Reference	Part Number	Description	Reference	Part Number	Description
capacitor:			R4110	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
C4100	2113740A49	CAP CHIP REEL CL1 +/-30 56	R4112	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
C4102	2113740G03	CAP CERAMIC CHIP 1.0 PF +/- .1PF	R4113	0611079A94	RES FIXED CHIP 6800 5 1/10 A/P
C4103 - 4107	2113901C58	CAP CHIP HI Q 100 PF +/- 5%	R4114	0611079A84	RES FIXED CHIP 2700 5 1/10 A/P
C4108	2311049A45	CAP TANT CHIP 10 10 35	R4115	0611079A69	RES FIXED CHIP 620 5 1/10W A/P
C4109	2113901C29	CAP CHIP HI Q 10 PF +/-0.50PF	R4116	0611077F68	RES CHIP 5760 1 1/8W
C4110	2113740A49	CAP CHIP REEL CL1 +/-30 56	R4117	0611077F24	RES CHIP 2000 1 1/8W
C4112, 4113	2311049A45	CAP TANT CHIP 10 10 35	R4118	0611077A01	RES CHIP JUMPER
C4114 - 4116	2113901C58	CAP CHIP HI Q 100 PF +/- 5%	R4119	0611077B15	RES CHIP 47K 5 1/8W
C4117	2113901C29	CAP CHIP HI Q 10 PF +/-0.50PF	R4120	0611077A01	RES CHIP JUMPER
C4118, 4119	2113901C58	CAP CHIP HI Q 100 PF +/- 5%	R4121	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
C4120, 4121	2380090M27	CAP ALU 330 20 16V	R4122	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
C4122 - 4135	2113740A55	CAP CHIP REEL CL1 +/-30 100	R4123	0611077F56	RES CHIP 4320 1 1/8W
C4136	2311049A45	CAP TANT CHIP 10 10 35	R4124	0611077F68	RES CHIP 5760 1 1/8W
C4137	2113740G03	CAP CERAMIC CHIP 1.0 PF +/- .1PF	R4125, 4126	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
C4140 - 4142	2113901C58	CAP CHIP HI Q 100 PF +/- 5%	R4127	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
C4143 - 4146	2113740A55	CAP CHIP REEL CL1 +/-30 100	R4128	0611077G04	RES CHIP 13.3K 1 1/8W
C4152, 4153	2113740A55	CAP CHIP REEL CL1 +/-30 100	R4129, 4130	0611077F24	RES CHIP 2000 1 1/8W
C4154	2113740G03	CAP CERAMIC CHIP 1.0 PF +/- .1PF	R4131	0611077G22	RES CHIP 20.5K 1 1/8W
C4156	2113740G03	CAP CERAMIC CHIP 1.0 PF +/- .1PF	R4132	0611077G42	RES CHIP 33.2K 1 1/8W
C4158 - 4189	2113740A55	CAP CHIP REEL CL1 +/-30 100	R4134, 4135	0682089V02	SMT RES .02 OHM 5% 2W
C4190	2113741A57	CAP CHIP CL2 X7R REEL 33000	R4137	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
C4192, 4193	2113740G03	CAP CERAMIC CHIP 1.0 PF +/- .1PF	R4138	0611077G04	RES CHIP 13.3K 1 1/8W
C4194	2113741B69	CAP CHIP CL2 X7R REEL 100000	R4139, 4140	0611077F24	RES CHIP 2000 1 1/8W
diode:			R4141	0611077G22	RES CHIP 20.5K 1 1/8W
CR4100	4882290T04	DIODE SI HOT CARRIER HSMS 2812	R4142	0611077G42	RES CHIP 33.2K 1 1/8W
CR4101	4813833C02	DIODE DUAL 70V '5B' COMM CATH	R4144	0611079A95	RES FIXED CHIP 7500 5 1/10 A/P
CR4102	4882290T04	DIODE SI HOT CARRIER HSMS 2812	R4145	0611079A90	RES FIXED CHIP 4700 5 1/10 A/P
CR4104	4813833C05	DIODE DUAL 70V 'A7X' BAV99LT1	R4146	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
CR4106 - 4109	4813830A14	DIODE 5.1V 5% 225MW MMBZ5231B_	R4147	0611079A50	RES FIXED CHIP 100 5 1/10W A/P
connector:			R4149	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
J4100	0984393T01	CONN MINI UHF RT ANGLE PCB MT	R4152	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
inductor:			R4153	0611079A42	RES FIXED CHIP 47 5 1/10W A/P
L4100	2462587X57	IND CHIP LO-PRO 220 NH 5%	R4154	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
L4104	2462587X57	IND CHIP LO-PRO 220 NH 5%	R4155	0611077F24	RES CHIP 2000 1 1/8W
L4115 - 4126	2462587X57	IND CHIP LO-PRO 220 NH 5%	R4156	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
transistor (see note):			R4158	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
Q4100	4813822D07	TSTR PNP 90V 10A MJF2955	R4159	0683962T05	RES CHIP 1.5 5-1
Q4101	4813824A10	TSTR NPN 40V .2A GEN PURP	R4161	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
Q4102	4813821A09	TSTR P-CH 60V 12A .2955_	R4163	0611077A01	RES CHIP JUMPER
Q4103, 4104	4813824A10	TSTR NPN 40V .2A GEN PURP	R4164	0611077A64	RES CHIP 390 5 1/8W
resistor, fixed:			R4165	0611077A74	RES CHIP 1000 5 1/8
R4100	0611077F94	RES CHIP 10.7K 1 1/8W	R4166	0682089V02	SMT RES .02 OHM 5% 2W
R4101	0611077F24	RES CHIP 2000 1 1/8W	R4167	0682089V02	SMT RES .02 OHM 5% 2W
R4102	0611077E94	RES CHIP 1000 1 1/8W	R4169	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4103	0611077F94	RES CHIP 10.7K 1 1/8W	R4170, 4171	0683962T24	RES CHIP 9.1 5-1
R4104	0611079G01	RES CHIP 10.0K 1/10W 1% 0805	R4172	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4105	0611077A01	RES CHIP JUMPER	R4173	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4106	0611077F94	RES CHIP 10.7K 1 1/8W	R4174	0611079A74	RES FIXED CHIP 1000 5 1/10 A/P
R4107	0611077F24	RES CHIP 2000 1 1/8W	R4175	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
R4108	0611077E94	RES CHIP 1000 1 1/8W	R4176	0611077G49	RES CHIP 39.2K 1 1/8W
R4109	0611077F94	RES CHIP 10.7K 1 1/8W	R4177	0611077G41	RES CHIP 32.4K 1 1/8W
			R4178	0611077G49	RES CHIP 39.2K 1 1/8W
			R4179	0611077G41	RES CHIP 32.4K 1 1/8W
			R4182	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
			R4184	0611077A58	RES CHIP 220 5 1/8W
			R4185	0611077G04	RES CHIP 13.3K 1 1/8W
			R4186	0611077F24	RES CHIP 2000 1 1/8W
			R4187	0611077F68	RES CHIP 5760 1 1/8W
			R4188	0611077F24	RES CHIP 2000 1 1/8W
			R4189	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
			R4190	0611079G01	RES CHIP 10.0K 1/10W 1% 0805
			R4200 - 4209	0611079A50	RES FIXED CHIP 100 5 1/10W A/P
			R4210	0611077A01	RES CHIP JUMPER

Parts List, Range 0 Power Amplifier, CTX1146A DC Distribution Board

Reference	Part Number	Description
R4213, 4214	0611077E94	RES CHIP 1000 1 1/8W
R4219	0611079E01	RES CHIP 100.0K 1/10W 1%
R4223	0611077A01	RES CHIP JUMPER
R4224	0611077F24	RES CHIP 2000 1 1/8W
thermistor:		
RT4100	0680149M02	THERMISTOR CHIP 100K OHM
integrated circuit (see note):		
U4100 – 4102	5113819A05	IC HIGH PERFORMANCE SING SPLY
U4103, 4104	5113805A84	IC MUX/DEMUX DUAL 4-CH ANALOG

Reference	Part Number	Description
jumper:		
W4100	4280500F01	T & R VER OF 4282981X01
W4201	4280500F01	T & R VER OF 4282981X01
non-referenced items:		
	1584753T02	HSNG CORRAL MED
	1585034U03	COVER SHIELD MEDIUM
	1584753T02	HSNG CORRAL MED
	1585034U03	COVER SHIELD MEDIUM
	8482790X05	BD CKT UHF DC DIST
	(PR50905)	UHF QUANTAR
	5482006W02	RIBBON THERMAL XFER
	5482006W03	BARCODE LABEL
	1280966D31	UHF RANGE 0 & 2 QUANTAR PWR AMP

NOTE 1: For optimum performance, diodes, transistors, and integrated circuits must be ordered by Motorola part number.